

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently amended) An edge member of a diaphragm of a speaker made of a flexible polyurethane foam obtained by mixing a raw material containing a hydroxyl compound, a polyisocyanate, water as a foaming agent, a foam stabilizer, and catalyst, and foaming the mixture, wherein the flexible polyurethane foam has a molar ratio of urea bond relative to urethane bond of 7 or less and more than 0.2; said hydroxyl compound contains 100 parts by weight of polyether polyol having a molecular weight from 3000 to 6000 and containing 50 wt.% or more of secondary hydroxyl group, and 0.5-20 parts by weight of another hydroxyl compound having a molecular weight lower than that of the polyether polyol; said another hydroxyl compound is selected from the group consisting of ethylene glycol, propylene glycol, diethylene glycol, butanediol, glycerin, trimethylolpropane, triethylolpropane, trimethylolethane, triethylolethane, pentaerythritol and 1,2,6-hexanetriol; an amount of water compounded is 1.0 to 6.0 parts by weight relative to 100 parts by weight of the polyether polyol; said foam stabilizer is a silicone based stabilizer modified with polyether, and has at least one reactive group; and said flexible polyurethane foam has a density of 20 to 40 kg/m³,

wherein the molar ratio of the urethane bond / urea bond is calculated by dividing a number of moles of the urethane bond by a number of moles of the urea bond wherein said numbers are defined by the following equations:

the number of moles of the urethane bond = $(fa \times A) / (Mwa \times fc^2)$; and the number of moles of the urea bond = $B / 18$,

wherein A = amount of the hydroxyl compound in parts by weight;

B = amount of water in parts by weight;

fa = number of functional groups of the hydroxyl compound;

Mwa = molecular weight of the hydroxyl compound; and

fc = number of functional groups of the polyisocyanate.

2-3. (Canceled)

4. (Previously presented) The edge member as claimed in claim 1, wherein said molar ratio of the urea bond relative to the urethane bond is 4 or less.

5-12. (Canceled)

13. (Previously presented) The edge member as claimed in claim 1, wherein said polyurethane foam has heat and humidity aging characteristics of at least 85% evaluated based on a retention of a tensile strength of the flexible polyurethane foam which was kept in an autoclave at a temperature of 115 °C for 24 hours.

14. (Previously presented) The edge member as claimed in claim 1, wherein said raw material further includes a cross-linking agent.

15-16. (Canceled)

17. (Previously presented) The edge member as claimed in claim 1, wherein said polyisocyanate is selected from the group consisting of tolylene diisocyanate, diphenylmethane diisocyanate, diphenyl diisocyanate, triphenyl diisocyanate, chlorophenyl-2,4-diisocyanate, p-phenylene diisocyanate, xylene diisocyanate, and polyaniline polyisocyanate.

18. (Previously presented) The edge member as claimed in claim 17, wherein said polyisocyanate has an isocyanate index from 85 to 120.